

NO_x REDUCTION SYSTEM FOR DIESEL ENGINES,
USING HYDROGEN SELECTIVE CATALYTIC REDUCTION

ABSTRACT OF THE DISCLOSURE

An emission control system for reducing NO_x in the exhaust of a diesel engine. A partial oxidation system receives diesel fuel from the engine's fuel tank and
5 partially oxidizes the diesel fuel into hydrogen. The hydrogen is then introduced into the main exhaust line and the hydrogen-enhanced exhaust is delivered to a hydrogen selective catalytic reduction unit, which uses the hydrogen to convert the NO_x to nitrogen.